SIEMENS

Data sheet

3RT1045-1AP04



CONTACTOR, AC-3 37 KW/400 V, AC 230 V, 50 HZ, 2 NO + 2 NC 3-POLE, SIZE S3, SCREW CONNECTION

Figure similar	
product brand name	SIRIUS
Product designation	power contactor
General technical data:	
Size of contactor	\$3
Insulation voltage	
Rated value	1 000 V
Degree of pollution	3
Surge voltage resistance Rated value	6 kV
Mechanical service life (switching cycles)	
 of the contactor typical 	10 000 000
 of the contactor with added electronics- 	5 000 000
compatible auxiliary switch block typical	
 of the contactor with added auxiliary switch 	10 000 000
block typical	
Protection class IP	
• on the front	IP00
• of the terminal	IP00
Equipment marking	
• acc. to DIN EN 61346-2	Q
• acc. to DIN EN 81346-2	Q
Ambient conditions:	
Installation altitude at height above sea level	2 000 m
maximum	
Ambient temperature	
 during operation 	-25 +60 °C

• during storage	-55 +80 °C
Main circuit:	
Number of poles for main current circuit	3
Number of NC contacts for main contacts	0
Number of NO contacts for main contacts	3
Connectable conductor cross-section in main circuit at AC-1	
• at 60 °C minimum permissible	35 mm²
• at 40 °C minimum permissible	50 mm²
Operating current	
• at AC-1 at 400 V	
— at ambient temperature 40 °C Rated value	120 A
• at AC-1 up to 690 V	
— at ambient temperature 40 °C Rated value	120 A
— at ambient temperature 60 °C Rated value	100 A
• at AC-3	
— at 400 V Rated value	80 A
— at 690 V Rated value	58 A
• at AC-4 at 400 V Rated value	66 A
Operating current for ≥ 200000 operating cycles at AC-4	
• at 400 V Rated value	34 A
• at 690 V Rated value	22 A
Operating current	
• with 1 current path at DC-1	
— at 24 V Rated value	100 A
— at 110 V Rated value	9 A
 with 2 current paths in series at DC-1 	
— at 24 V Rated value	100 A
— at 110 V Rated value	100 A
 with 3 current paths in series at DC-1 	
— at 24 V Rated value	100 A
— at 110 V Rated value	100 A
Operating current	
 with 1 current path at DC-3 at DC-5 	
— at 24 V Rated value	40 A
— at 110 V Rated value	2.5 A
 with 2 current paths in series at DC-3 at DC-5 	
— at 110 V Rated value	100 A
— at 24 V Rated value	100 A
• with 3 current paths in series at DC-3 at DC-5	

Operating power Image: constraint of the con	— at 110 V Rated value	100 A
	— at 24 V Rated value	100 A
	Operating power	
- at 680 V at 80 °C Rated value 114 kW Operating power for ≥ 200000 operating cycles at AC-4 7.9 kW - at 400 V Rated value 21.1 kW Thermal short-time current restricted to 10 s 760 A Active power loss at AC-3 at 400 V for rated value of the operating current per conductor 7.7 W No-Load switching frequency 5 000 1/h • with AC 5 000 1/h Operating frequency 6 000 1/h • at AC-1 maximum 900 1/h • at AC-4 maximum 1000 1/h • at AC-4 maximum 300 1/h • at AC-4 maximum 300 1/h • at S0 Hz Rated value 230 V • at S0 Hz Rated value 50 Hz • at S0 Hz Rated value 200 V • at S0 Hz Rated value 200 V • at S0 Hz Rated value 200 V • at S0 Hz 81.1 Aparent pick-up power of the magnet coil with AC 22 V/A • at S0 Hz 0.81.1 Aparent holding power of the magnet coil with AC 22 V/A • at S0 Hz 0.8	• at AC-1	
Operating power for ≥ 20000 operating cycles at AC-4 17.9 kW • at 400 V Rated value 17.9 kW • at 600 V Rated value 21.1 kW Thermal short-time current restricted to 10 s 760 A Active power loss at AC-3 at 400 V for rated value of the operating current per conductor 77.0 W No-load switching frequency 700 1/h • att AC-1 maximum 900 1/h • at AC-2 maximum 400 1/h • at AC-2 maximum 300 1/h • at AC-2 maximum 300 1/h • at AC-4 maximum 300 1/h • at 50 Hz AC Control supply voltage of the control supply voltage AC Control supply voltage rated 50 Hz Operating range factor control supply voltage rated 50 Hz Operating range factor with the holding power of the coll 0.88 Apparent holding power of the magnet coll with AC 22 V/A Inductive power factor with the holding power of the coll 0.88 Apparent holding power of the magnet coll with	— at 230 V at 60 °C Rated value	38 kW
AC-4 Image: Comparison of the segment of the segmen	— at 690 V at 60 °C Rated value	114 kW
at 050 V Rated value 21.1 kW Thermal short-time current restricted to 10 s 760 A Active power loss at AC-3 at 400 V for rated value of the operating current per conductor 7.7 W No-load switching frequency 5000 1/h • with AC 5000 1/h Operating frequency 5000 1/h • at AC-1 maximum 900 1/h • at AC-3 maximum 400 1/h • at AC-3 maximum 1000 1/h • at AC-3 maximum 3000 1/h • at AC-4 maximum 900 1/h • at AC-3 maximum 1000 1/h • at AC-4 maximum 3000 1/h • at AC-4 maximum 230 V • at 50 Hz Rated value 50 Hz • at 50 Hz Rated value 50 Hz • at 50 Hz 0.8 1.1 Apparent plok-up power of the magnet coil with AC 270 V-A • at 50 Hz 0.8 1.1 Apparent plok-up power of the magnet coil with AC 22 V-A • at 50 Hz 0.8 1.1 Apparent holding power of the magnet coil with AC 22 V-A • of auxiliary contacts 0.7 • with AC 10 15 ms • for auxiliary c		
Thermal short-time current restricted to 10 s Active power loss at AC-3 at 400 V for rated value of the operating current per conductor No-load switching frequency • with AC Operating frequency • at AC-1 maximum 900 1/h • at AC-2 maximum 400 1/h • at AC-3 maximum 1000 1/h • at AC-3 maximum 300 1/h Control circuit/ Control: Type of voltage of the control supply voltage • at aC-4 maximum 300 1/h Control circuit/ Control: Type of voltage of the control supply voltage • at aC-4 maximum 300 1/h Control circuit/ Control: Type of voltage of the control supply voltage • at aC-4 maximum 300 1/h Control supply voltage with AC • at 50 Hz Control supply voltage rated value of the magnet coil with AC • at 50 Hz Control frequency • with AC • at 50 Hz Control supply voltage rated value of the magnet coil with AC • at 50 Hz Control supply voltage rated value of the magnet coil with AC • at 50 Hz Control supply voltage rated value of the magnet coil with AC • at 50 Hz Control supply voltage rated value Coloin gover of the magnet coil with AC • at 50 Hz Control frequency • with AC • at 50 Hz Control the holding power of the magnet coil with AC • at 50 Hz Control frequency • with AC • at 50 Hz Control frequency • with AC • at 50 Hz Control supply voltage rated value of the magnet coil with AC • at 50 Hz Control frequency • with AC • at 50 Hz Control frequency • with AC • at 50 Hz Control supply voltage rated value • fracter with closing power of the magnet coil with AC • at 50 Hz Control frequency • with AC • at 50 Hz Control frequency • with AC • at 50 Hz Control frequency • with AC • at 50 Hz Control frequency • with AC • at 50 Hz Control frequency • with AC • at 50 Hz Control frequency • with AC • at 50 Hz Control frequency • with AC • at 50 Hz Control frequency • with AC • at 50 Hz Control frequency • with AC • at 50 Hz Control frequency • with AC • at 50 Hz Control frequency • with AC • at 50 Hz Control frequency • with AC • at 50 Hz Control frequency • with AC • at 50 Hz Control frequency • with AC • at 50 Hz Control freque	• at 400 V Rated value	17.9 kW
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the operating current per conductor Image: conductor No-load switching frequency 5 000 1/h • with AC 5 000 1/h Operating frequency 900 1/h • at AC-1 maximum 900 1/h • at AC-2 maximum 1000 1/h • at AC-3 maximum 1000 1/h • at AC-4 maximum 300 1/h • at 50 Hz Rated value AC • at 50 Hz Rated value 50 Hz • at 50 Hz 0.8 1.1 Apparent pick-up power of the magnet coil with AC 270 V-A • at 50 Hz 0.8 1.1 Apparent holding power of the coil 0.68 Apparent holding power of the magnet coil with AC 22 V-A outil AC 17 90 ms Arcing time 10 15 ms with AC 10 15 ms • for auxiliary contacts 2 • for auxiliary contacts<	Thermal short-time current restricted to 10 s	760 A
No-load switching frequency 5000 1/h • with AC 5000 1/h Operating frequency 900 1/h • at AC-1 maximum 900 1/h • at AC-2 maximum 400 1/h • at AC-3 maximum 1000 1/h • at AC-3 maximum 300 1/h • at AC-4 maximum 300 1/h • at AC-4 maximum 300 1/h • at AC-4 maximum 300 1/h Control circuit/ Control: X Control supply voltage with AC 50 Hz • at 50 Hz Rated value 230 V • at 50 Hz AC Control supply voltage with AC 50 Hz • at 50 Hz 0.8 1.1 Apparent pick-up power of the magnet coil with AC 270 V-A • at 50 Hz 0.88 Apparent holding power of the coil oil oil power of the coil 0.88 Apparent holding power of the coil with AC 22 V-A oil 17 90 ms Arcing time 10 15 ms Auxiliary contacts 2 • for auxiliary contacts 2 • for auxiliary contacts	Active power loss at AC-3 at 400 V for rated value of	7.7 W
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Control supply voltage with AC230 V• at 50 Hz Rated value50 HzOperating range factor control supply voltage rated value of the magnet coil with AC50 Hz• at 50 Hz0.8 1.1Apparent pick-up power of the magnet coil with AC270 V·AInductive power factor with closing power of the coil0.68Apparent holding power of the magnet coil with AC22 V·AInductive power factor with the holding power of the coil0.27Closing delay • with AC17 90 msArcing time10 15 msAuxiliary circuit:2Number of NC contacts • for auxiliary contacts • instantaneous contact2Number of NO contacts2	Control circuit/ Control:	
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Inductive power factor with closing power of the coil 0.68 Apparent holding power of the magnet coil with AC 22 V·A Inductive power factor with the holding power of the coil 0.27 Closing delay 0.27 • with AC 17 90 ms Arcing time 10 15 ms Auxiliary circuit: 22 Number of NC contacts 2 - instantaneous contact 2 Number of NO contacts 2	• at 50 Hz	0.8 1.1
Apparent holding power of the magnet coil with AC 22 V·A Inductive power factor with the holding power of the coil 0.27 Closing delay 17 90 ms • with AC 17 90 ms Arcing time 10 15 ms Auxiliary circuit: 19 15 ms Auxiliary contacts 2 • for auxiliary contacts 2 — instantaneous contact 2 Number of NO contacts 2	Apparent pick-up power of the magnet coil with AC	270 V·A
Inductive power factor with the holding power of the coil 0.27 Closing delay 17 90 ms • with AC 17 90 ms Arcing time 10 15 ms	Inductive power factor with closing power of the coil	0.68
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Arcing time 10 15 ms Auxiliary circuit: 10 15 ms Number of NC contacts 2 Instantaneous contact 2 Number of NO contacts 2		17 90 ms
Auxiliary circuit: Number of NC contacts - instantaneous contact 2 Number of NO contacts		
Number of NC contacts • for auxiliary contacts — instantaneous contact 2 Number of NO contacts	-	
for auxiliary contacts — instantaneous contact Xumber of NO contacts		
— instantaneous contact 2 Number of NO contacts 2		
Number of NO contacts	-	2
		2
 for auxiliary contacts 		
	 for auxiliary contacts 	

— instantaneous contact	2		
Operating current at AC-12 maximum	10 A		
Operating current at AC-15			
at 230 V Rated value	6 A		
at 400 V Rated value	3 A		
Operating current at DC-12			
at 60 V Rated value	6 A		
at 110 V Rated value	3 A		
at 220 V Rated value	1A		
Operating current at DC-13			
at 24 V Rated value	10 A		
at 60 V Rated value	2 A		
at 110 V Rated value	1 A		
at 220 V Rated value	0.3 A		
Contact reliability of the auxiliary contacts	1 faulty switching per 100 million (17 V, 1 mA)		
UL/CSA ratings:			
Contact rating of the auxiliary contacts acc. to UL	A600 / Q600		
Short-circuit:			
Design of the fuse link			
 for short-circuit protection of the main circuit 			
 — with type of assignment 1 required 	fuse gL/gG: 250 A		
 — with type of assignment 2 required 	fuse gL/gG: 160 A		
 for short-circuit protection of the auxiliary switch 	fuse gL/gG: 10 A		
required			
Installation/ mounting/ dimensions:			
Mounting type	screw and snap-on mounting onto 35 mm and 75 mm standard		
	mounting rail		
Side-by-side mounting	Yes		
Height	146 mm		
Width	70 mm		
Depth	188 mm		
Required spacing			
 for grounded parts 			
— at the side	6 mm		
Connections/ Terminals:			
Type of electrical connection			
 for main current circuit 	screw-type terminals		
 for auxiliary and control current circuit 	screw-type terminals		
Type of connectable conductor cross-section			
• for main contacts			
— solid	2x (2.5 16 mm²)		

— stranded			2x (10 50 mm²)		
— single or	multi-stranded		2x (2,5 16 mm²)		
— finely stra	anded with core end p	processing	2x (2.5 35 mm²)		
— finely stra processing	anded without core er	nd	2x (10 35 mm²)		
 for AWG cond 	luctors for main conta	acts	2x (10 1/0)		
Type of connectable conductor cross-section					
 for auxiliary co 	ontacts				
— solid			2x (0.5 1.5 mm²), 2	x (0.75 2.5 mm²), max	x. 2x (0.75 4 mm²)
— finely stra	anded with core end p	processing	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)		
 for AWG cond 	luctors for auxiliary co	ontacts	2x (20 16), 2x (18	14), 1x 12	
Cortificatos/ opprov	volo:				
Certificates/ approv				Functional	Declaration of
General Produc	a Approvar			Safety/Safety of Machinery	Conformity
	CSA		EHC	Type Examination	EG-Konf.
Test Certificates	Shipping Approv	val			
Special Test Certificate	ATCAN OUR DE	GL	Lloyd's Register		
	ABS	GL	LRS	RINA	RMRS
other					
Confirmation	Environmental Confirmations	other			

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